Results:

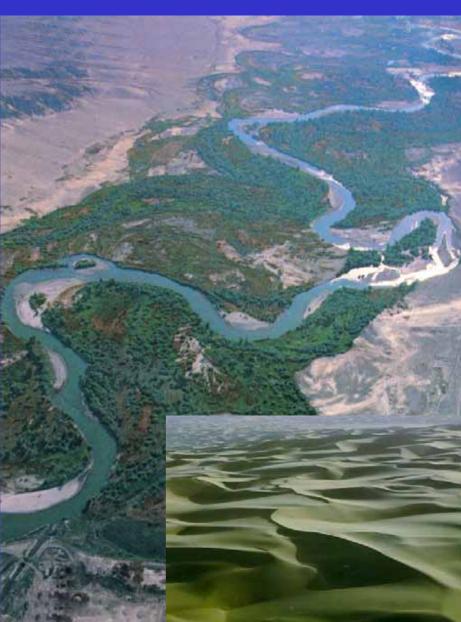
- ➤ November 2001 -- November 2002
- ➤ The water area of the Ebinur Lake -- over 800 km² in average.
- **▶**The dried-up lake bottom has been covered with water.
- > The serious sandstorms did not occur in 2002.
- The ecological environment of the Ebinur Lake has been obviously improved
- ➤It is the basic object for improving the environment in the Ebinur Lake basin to maintain the lake water area over 800 km².



4. Application of the MODIS Data in Tarim River

2347 km, mainstream 1320 km, catchment area $1.04 \times 10^6 \text{ km}^2$, total volume of water resources in the watershed is $4.368 \times 10^{10} \text{ m}^3$, farmland $1.33 \times 10^6 \text{ hm}^2$ in area, 8.26 million people





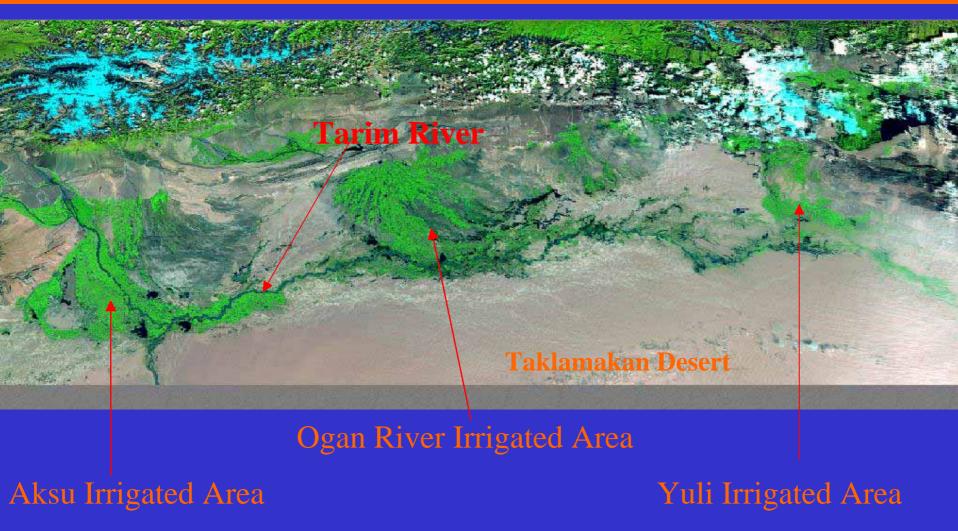


Aksu Irrigated Area

Yuli Irrigated Area

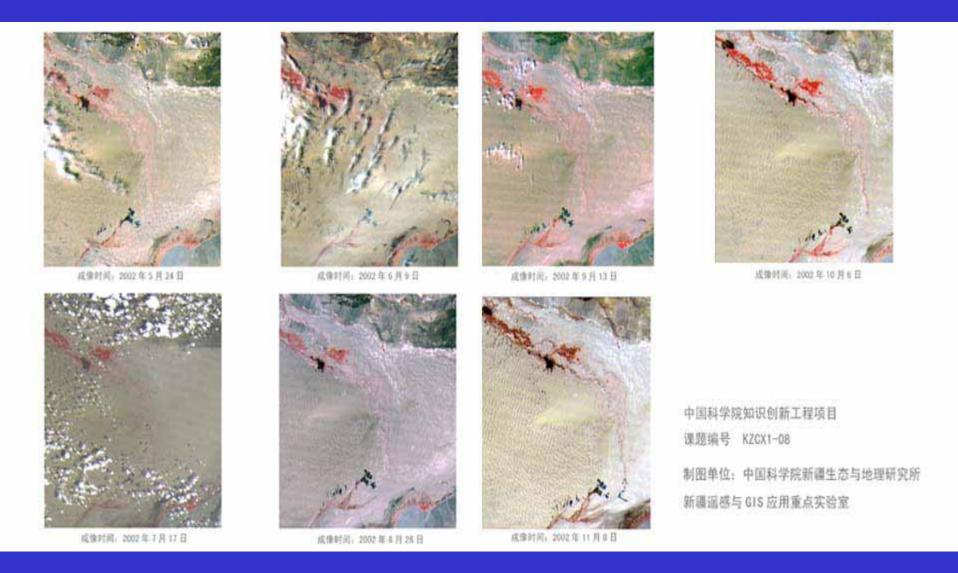
The remote sensing monitoring on the environment in the Tarim River watershed, Xinjiang (July 7, 2002)



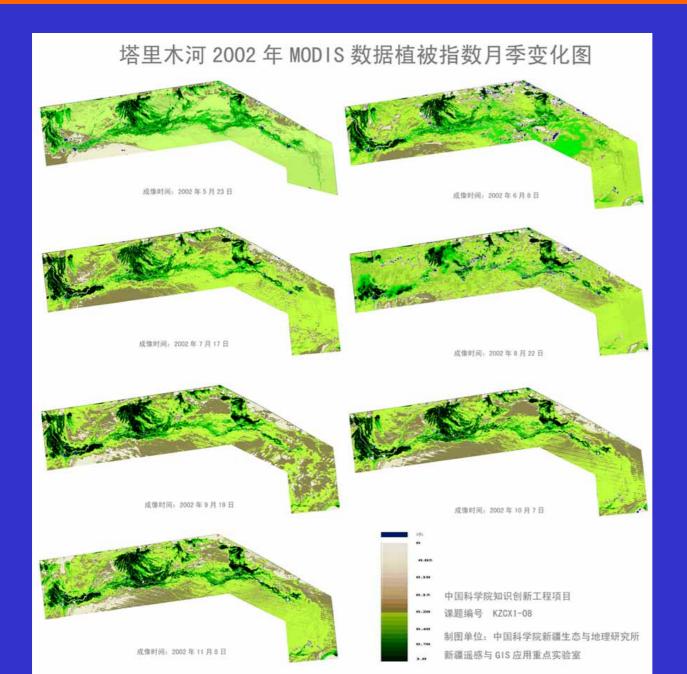


The remote sensing monitoring on the environment in the Tarim River watershed, Xinjiang (August 27, 2002)



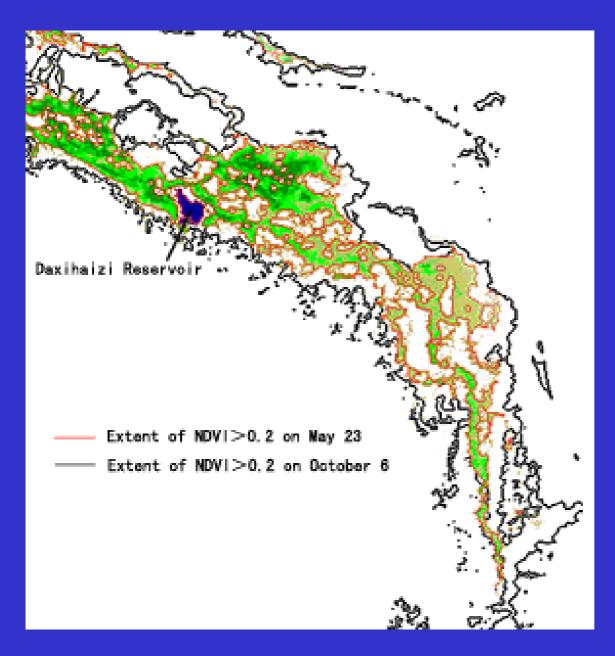


The MODIS images in the lower reaches of Tarim River in 2002



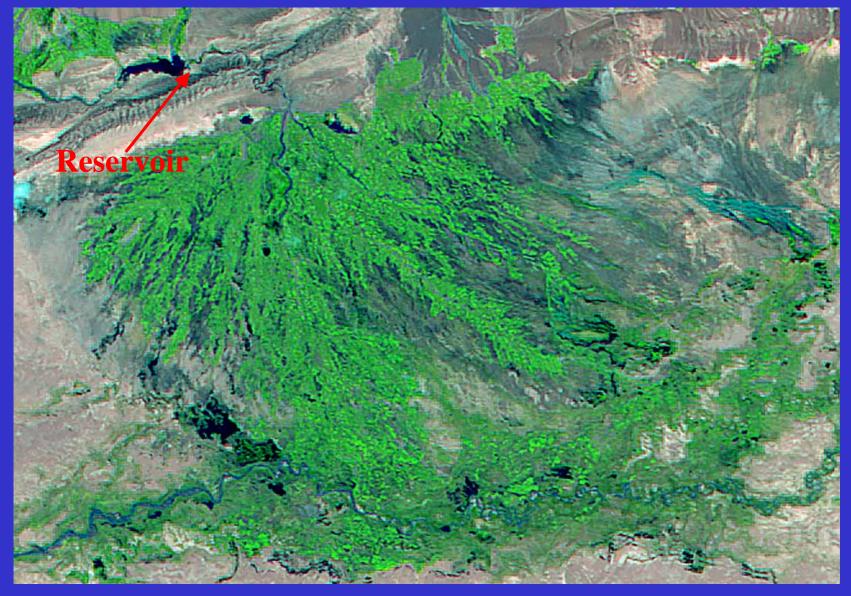
Monthly and seasonal change of the vegetation indexes of the MODIS data in the Tarim River watershed in 2002





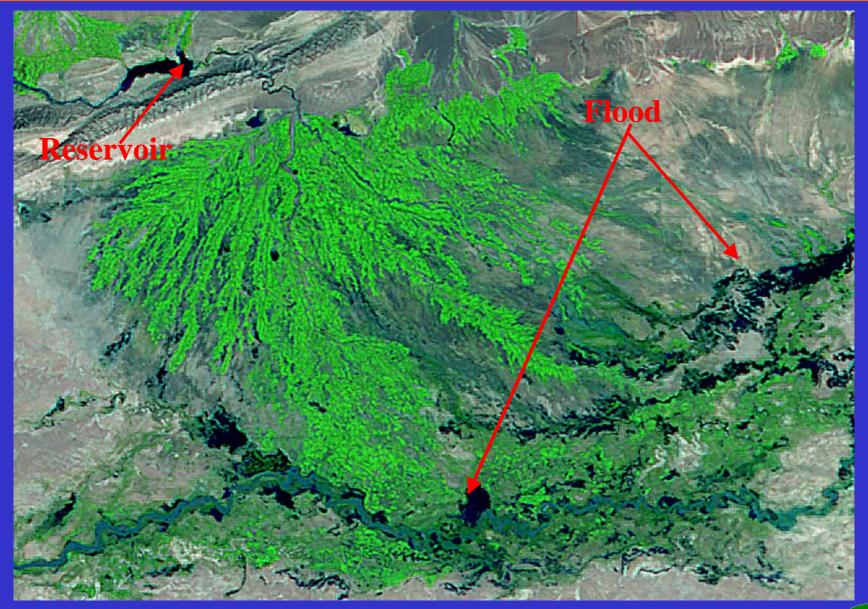
The derived results are applied to analyze the monthly change of NDVI and to monitor the growth status of the vegetation. The vegetation coverage in October was obviously higher than that in May.



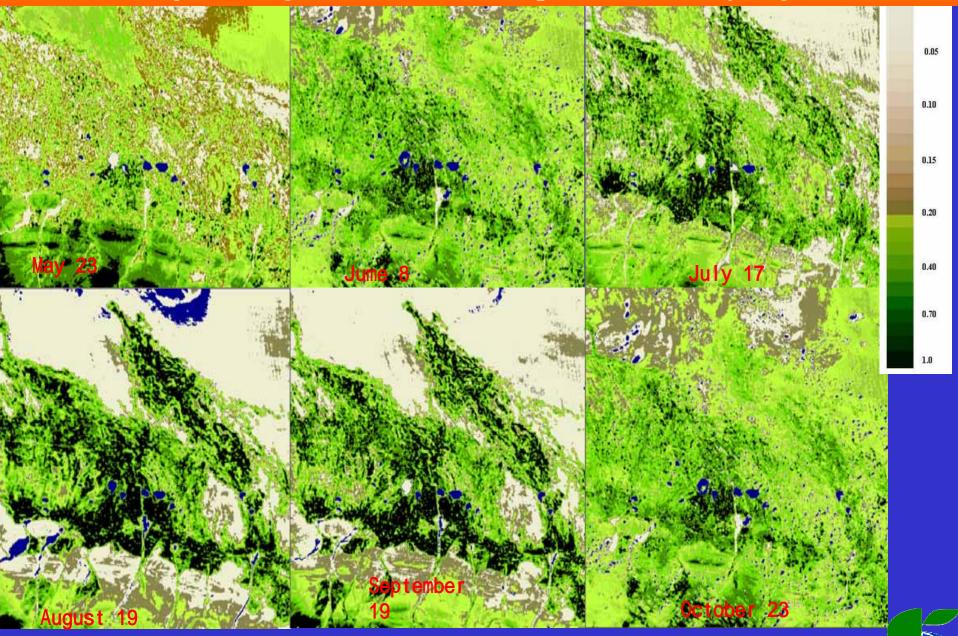


Monitoring on the flood in the Ogan River irrigated Area (before the flood occurrence, July 17, 2002)



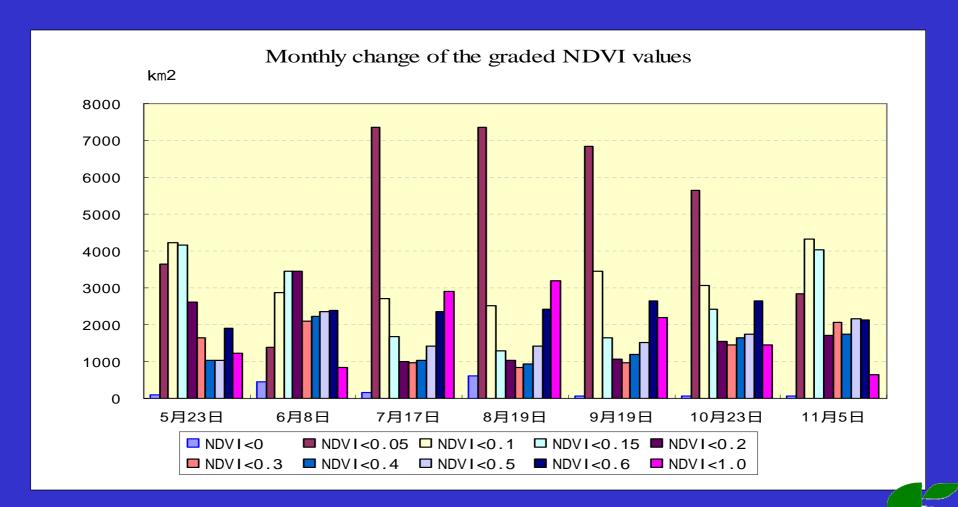


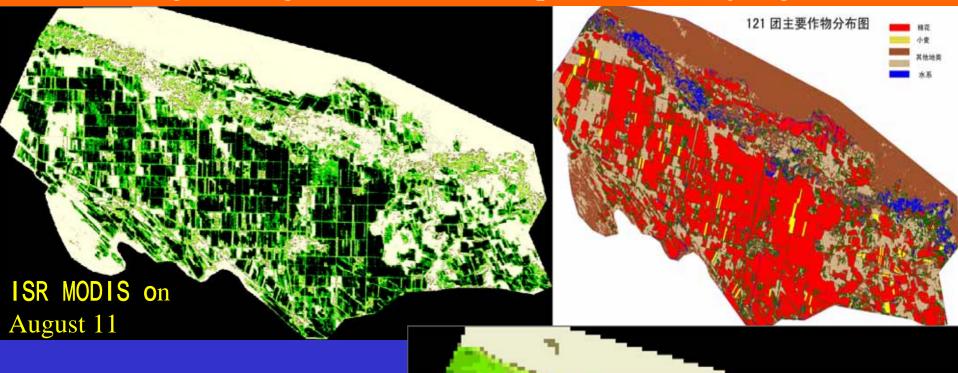
Monitoring on the flood in the Ogan River irrigated Area (after the flood, August 27, 2002)



Derived NDVI results in north Xinjiang

The value increases with the growth of cotton, it is up to the peak value in July and August, and then it decreases gradually.

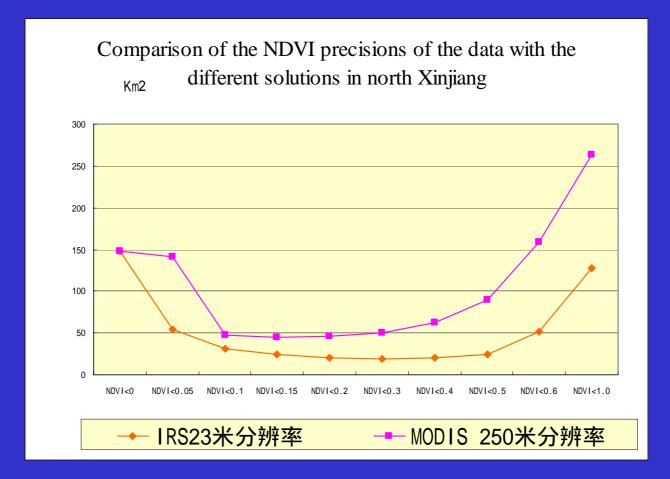




MODIS NOVI

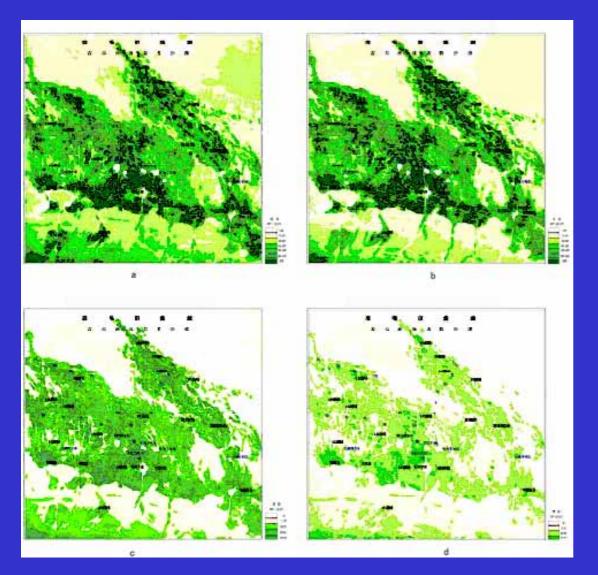
on August 19

Analysis on the growth status of cotton by using the NDVI products with the different solutions



although the statistical areas of NDVI based on the MODIS data are larger than that based on the IRS data, the change trends of the areas divided by the two kinds of NDVI values are very similar





Change of NPP based on MODIS data in north Xinjiang

The calculated results show that the average NPP value in the Shihezi region was 469.06gC/m² in 2002, in which it was 810.37gC/m² in the oases and 170.31gC/m² in the deserts.

Conclusion:

Application of the MODIS data in Xiinjiang include monitoring, analysis and assessment of agricultural, natural disasters, soil moisture, desertification, atmospheric environment, exploitation and utilization of water resources, regional ecological restoration, etc,.







Thanks

